| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| S8 | 14 | SOX adj M or bcl adj complex or NDH-I or bd adj3 oxidase or NDH-II | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:10 |
| L6 | 2 | (SOX adj M or bcl adj complex or NDH-I or bd adj3 oxidase or NDH-II) and l2 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:10 |
| S39 | 212133 | Nakai.in. or Nakanishi.in. or "Kawahara.in" or Ito.in. or Kurahashi.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:09 |
| L5 | 4 | l2 and energy adj efficiency same respiratory | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:09 |
| L4 | 4 | l2 and energy adj efficiency and respiratory | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:09 |
| L3 | 211 | l2 and energy adj efficiency | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:09 |
| L2 | 250486 | Nakai.in. or Nakanishi.in. or Kawahara.in. or Ito.in. or Kurahashi.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:09 |
| L1 | 236050 | Nakai.in. or Nakanishi.in. or "Kawahara.in" or Ito.in. or Kurahashi.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/09 09:09 |
| S193 | 2 | S192 and excretion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/08 18:52 |
| S192 | 3 | (US-20020106800-$ or US-20050143570-$ or US-20050221455-$).did. | US-PGPUB | OR | OFF | 2006/01/08 18:52 |

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| S191 | 1706 | excretion same amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/08 18:49 |
| S190 | 4 | "4104124".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/01/08 18:49 |
| S189 | 2 | h-81 and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:28 |
| S188 | 50 | h-81 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:27 |
| S187 | 8 | b-8066 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:27 |
| S186 | 0 | vkpmb8066 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:27 |
| S185 | 0 | vkpm adj b8066 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:26 |
| S184 | 1 | vkpm adj b-8066 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:26 |
| S183 | 1 | 11/149349 and (secrete or accumulate or excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:26 |
| S182 | 5 | w3110 and tyra and excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:25 |

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| S180 | 32 | w3110 and tyra | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:19 |
| S181 | 3 | vl2054 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:17 |
| S179 | 0 | w3110 and tyrqa | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:15 |
| S178 | 0 | cf1943 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:14 |
| S177 | 13 | (W3110tyrA or w3110 adj tyra) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:13 |
| S147 | 13 | (W3110tyrA or w3110 adj tyra) and amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 09:07 |
| S176 | 105 | amino adj acid adj10 excretion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:59 |
| S175 | 0 | amino adj acid adj10 excrettion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:59 |
| S172 | 20 | amino adj acid adj10 excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:59 |
| S174 | 20 | amino adj acid adj10 excrete and excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:58 |

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| S173 | 3041 | amino adj acid adj10 excreteamd excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:58 |
| S171 | 1 | amino adj acid adj10 excrete and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:54 |
| S170 | 5 | amino adj acid adj10 excretion and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:53 |
| S169 | 55 | S168 or S167 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:51 |
| S167 | 46 | amino adj acid adj10 excretion and coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:51 |
| S168 | 9 | amino adj acid adj10 excrete and coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:50 |
| S166 | 46 | amino adj acid adj10 excretion and coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:50 |
| S165 | 70 | S163 or S164 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:50 |
| S164 | 57 | amino adj acid adj20 excretion and coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:50 |
| S163 | 13 | amino adj acid adj20 excrete and coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:50 |

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| S162 | 14 | amino adj acid same excrete same coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:50 |
| S161 | 155 | amino adj acid same excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:47 |
| S159 | 3 | amino adj acid adj biosynthesis same excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:47 |
| S160 | 3 | S158 or S159 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:46 |
| S158 | 2 | amino adj acid adj biosynthesis same excretion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:46 |
| S157 | 991 | amino adj acid adj biosynthesis | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:46 |
| S156 | 5 | S154 or S155 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:46 |
| S155 | 3 | w3110 same amino same secretion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |
| S154 | 2 | w3110 same amino same excretion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |
| S153 | 0 | w3110 same amino same excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |

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| S152 | 3231 | w3110 same amino excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |
| S151 | 199 | w3110 same amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |
| S150 | 672689 | w3110 saem amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |
| S149 | 11 | S148 not S146 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:44 |
| S148 | 13 | (W3110tyrA or w3110 adj tyra) and amino adj acid | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:42 |
| S146 | 2 | (W3110tyrA or w3110 adj tyra) same amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:41 |
| S145 | 2 | (W3110tyrA or w3110 adj tyra)same amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:41 |
| S144 | 9 | (W3110tyrA or w3110 adj tyra) and accumulated | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:40 |
| S110 | 12 | W3110tyrA or w3110 adj tyra | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 08:05 |
| S143 | 2 | "5175108".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:59 |

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| S142 | 0 | "5175108".pn. and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:59 |
| S141 | 2 | "5175106".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:59 |
| S140 | 0 | "5175106".pn. and "3110" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:59 |
| S139 | 0 | "5175106".pn. and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:59 |
| S138 | 1 | (W adj "3110") same (secrete) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:59 |
| S137 | 0 | (W adj "3110") same (secrete) same amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:58 |
| S136 | 0 | (W3110) same (secrete) same amino | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:58 |
| S133 | 2183 | (W3110) same (secrete) same coli | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:58 |
| S135 | 2 | (W3110) adj50 (secrete) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:57 |
| S134 | 2 | (W3110) adj30 (secrete) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:57 |

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| S132 | 0 | (W3110) same (secrete) and tyra | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:57 |
| S131 | 2 | (W3110) adj20 (secrete) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:57 |
| S130 | 2184 | (W3110) same (secrete) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:57 |
| S129 | 4 | (W3110) same (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:56 |
| S128 | 4 | (W3110tyrA or w3110 adj tyra ) and (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:55 |
| S127 | 0 | Tinouchi.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:30 |
| S126 | 14 | Ajinomoto.in. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:30 |
| S125 | 0 | "4104124".pn. and tyra | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:22 |
| S124 | 0 | "4104124".pn. and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:22 |
| S123 | 4 | "4104124".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:22 |

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| S1 | 154554 | microorganism or microbe or escherichia or coryneform | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/05 07:20 |
| S12 2 | 3 | S110 and excretion | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 12:19 |
| S11 1 | 15 | AJ12604 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 12:17 |
| S12 1 | 5 | b-3996 same w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:50 |
| S12 0 | 20 | b-3996 and w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:50 |
| S11 9 | 8 | b-3996 and (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:50 |
| S11 8 | 0 | b3996 and (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:49 |
| S11 7 | 4 | S116 and (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:49 |
| S11 6 | 22 | ria adj "1867" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:48 |
| S11 5 | 0 | VBPM adj B-3996 or vkbp adj b3996 or vbpmb3996 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:48 |

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| S114 | 5 | S113 and (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:48 |
| S108 | 12 | W3110tyrA or w3110 adj tyra or AJAJ12604 or VBPM adj B-3996 or vkbp adj b3996 or vbpmb3996 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:48 |
| S113 | 21 | "FERM BP-3579" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:47 |
| S112 | 2 | AJ12604 and (excrete or excretion) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:47 |
| S109 | 0 | S108 and excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:44 |
| S107 | 41 | S106 and excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:44 |
| S106 | 5073 | W3110(tyrA) or w3110 adj tyra or AJAJ12604 or VBPM adj B-3996 or vkbp adj b3996 or vbpmb3996 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:44 |
| S105 | 5073 | W3110(tyrA) or w3110 adj tyra or AJAJ12604 or VBPM adj B-3996 or vkbp adj b3996 or vvbpmb3996 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:43 |
| S104 | 1 | 09/897988 and soxm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:42 |
| S103 | 0 | 09/897988 and sox | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:22 |

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|---|---|---|---|---|---|---|
| S102 | 1 | 09/897988 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:22 |
| S101 | 58 | excrete adj20 amino adj acid | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 11:21 |
| S100 | 1 | lysine same w3110 and excrete | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 10:43 |
| S65 | 26 | lysine same w3110 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/23 10:38 |
| S99 | 8 | soxm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/21 08:22 |
| S98 | 4 | S94 adj25 (clone) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:54 |
| S97 | 3 | S94 adj25 (transformant or transformation or transform or transfect or introduce) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:54 |
| S96 | 23 | S94 same (transformant or transformation or transform or transfect or introduce) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:53 |
| S95 | 296 | S94 and coli same (transformant or transformation or transform or transfect or introduce) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:53 |
| S93 | 7 | nuo and coli same (transformant or transformation or transform or transfect or introduce) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:53 |

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| S94 | 739 | nadh adj dehydrogenase | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:52 |
| S92 | 88 | nuo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:50 |
| S91 | 2 | (clone or cloned or isolated or isolate) adj20 S86 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:50 |
| S90 | 2 | (clone or cloned or isolated or isolste) adj20 S86 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:50 |
| S89 | 2 | (clone or cloned or isolated or isoalte) adj20 S86 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:50 |
| S88 | 0 | transformation adj20 nuo | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:49 |
| S87 | 0 | S86 adj20 (clone or cloned) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:49 |
| S86 | 156 | S84 or S85 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:49 |
| S85 | 102 | nuo or ndh1 or nadh adj dehydrogenase adj S81 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:49 |
| S84 | 142 | nuo or ndhI or nadh adj dehydrogenase adj I | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:49 |

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| S81 | 1295 | nuo or ndh or nadh adj dehydrogenase | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:49 |
| S83 | 5 | S81 adj20 (transformation or tranformed or transfect or plasmid or vector) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:48 |
| S82 | 141 | S81 same (transformation or tranformed or transfect or plasmid or vector) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 14:48 |
| S80 | 0 | 09/897988 and brm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 12:11 |
| S79 | 1 | 09/897988 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 12:11 |
| S78 | 0 | S77 and 09/897988 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 12:11 |
| S77 | 14 | rc1 and brm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 12:11 |
| S76 | 23 | producing adj10 amino adj acid and coryneform same wild-type | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 12:10 |
| S75 | 116 | producing adj10 amino adj acid and coryneform same escherichia | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 08:02 |
| S74 | 6998 | producing adj10 amino adj acid | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 08:01 |

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| S73 | 13 | phenylalanine same aj12604 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 08:01 |
| S72 | 17 | valine same vl1970 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:45 |
| S71 | 20 | isoleucine same kx141 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:45 |
| S70 | 0 | isoleucine same kx14 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:44 |
| S69 | 13 | leucine same aj11478 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:44 |
| S68 | 56409 | leucine aj11478 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:44 |
| S67 | 15 | leucibe aj11478 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:44 |
| S66 | 16 | glutamic same aj12624 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:43 |
| S64 | 21 | aj11442 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:42 |
| S62 | 30 | vkpm adj2 "3996" | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:42 |

| | | | | | | |
|---|---|---|---|---|---|---|
| S63 | 30 | vkpm adj2 "3996" and threonine | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:40 |
| S61 | 705 | vkpm | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/19 07:40 |

```
FILE 'SCISEARCH' ENTERED AT 13:54:11 ON 09 JAN 2006
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=> s nakai?/au or nakansihi?/au or kawahara?/au or ito?/au or kurahashi?/au
L1      290681 NAKAI?/AU OR NAKANSIHI?/AU OR KAWAHARA?/AU OR ITO?/AU OR KURAHAS
               HI?/AU

=> s l1 and respiration
L2         721 L1 AND RESPIRATION

=> s l1 and respiratory
L3        1861 L1 AND RESPIRATORY

=> s l2 or l3
L4        2311 L2 OR L3

=> s l4 and (high-energy or low-energy)
L5          21 L4 AND (HIGH-ENERGY OR LOW-ENERGY)

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6          11 DUP REM L5 (10 DUPLICATES REMOVED)

=> d ti 1-11

L6   ANSWER 1 OF 11  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Method for producing substances utilizing microorganisms

L6   ANSWER 2 OF 11     MEDLINE on STN                  DUPLICATE 1
TI   Effect of dexamethasone on mitochondrial maturation in the fetal rat
     brain.

L6   ANSWER 3 OF 11     MEDLINE on STN
TI   Stereotactic single high dose irradiation of lung tumors under
     respiratory gating.

L6   ANSWER 4 OF 11     MEDLINE on STN                  DUPLICATE 2
TI   Mouse coq7/clk-1 orthologue rescued slowed rhythmic behavior and extended
     life span of clk-1 longevity mutant in Caenorhabditis elegans.

L6   ANSWER 5 OF 11     MEDLINE on STN                  DUPLICATE 3
TI   Effect of the immunosuppressant drug FK506 on neonatal cerebral
     mitochondrial function and energy metabolism after transient intrauterine
     ischemia in rats.

L6   ANSWER 6 OF 11  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Developmental changes in mitochondrial activity and energy metabolism in
     the immature rat brain

L6   ANSWER 7 OF 11     MEDLINE on STN                  DUPLICATE 4
TI   Developmental changes in mitochondrial activity and energy metabolism in
     fetal and neonatal rat brain.

L6   ANSWER 8 OF 11  CAPLUS  COPYRIGHT 2006 ACS on STN
TI   Stability of high-energy phosphates in right
     ventricle: myocardial energetics during right coronary hypotension

L6   ANSWER 9 OF 11     MEDLINE on STN                  DUPLICATE 5
TI   In vivo profile of myocardial energy metabolism of pressure-overloaded
     rat.

L6   ANSWER 10 OF 11  CAPLUS  COPYRIGHT 2006 ACS on STN
```

TI Mechanisms involved in thermoregulatory heat production in brown adipose tissue

L6 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
TI Physical analysis of the energy-transducing reaction in mitochondria

=> d ibib abs 1

L6 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:31108 CAPLUS
DOCUMENT NUMBER: 136:101249
TITLE: Method for producing substances utilizing microorganisms
INVENTOR(S): **Nakai, Yuta**; Nakanishi, Kazuo; **Kawahara, Yoshio**; **Ito, Hisao**; **Kurahashi, Osamu**
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| EP 1170376 | A1 | 20020109 | EP 2001-116050 | 20010702 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| JP 2002017363 | A2 | 20020122 | JP 2000-204252 | 20000705 |
| AU 782560 | B2 | 20050811 | AU 2001-54169 | 20010702 |
| BR 2001002666 | A | 20020226 | BR 2001-2666 | 20010704 |
| RU 2238325 | C2 | 20041020 | RU 2001-118542 | 20010704 |
| CN 1335401 | A | 20020213 | CN 2001-125954 | 20010705 |
| US 2002160461 | A1 | 20021031 | US 2001-897988 | 20010705 |
| PRIORITY APPLN. INFO.: | | | JP 2000-204252 A | 20000705 |

AB In a method for producing a target substance utilizing a microorganism comprising culturing the microorganism in a medium to produce and accumulate the target substance in the medium and collecting the target substance, there is used, as the microorganism, a mutant strain or a genetic recombinant strain constructed from a parent strain of the microorganism having a **respiratory** chain pathway of **high energy** efficiency and a **respiratory** chain pathway of **low energy** efficiency as **respiratory** chain pathways, and having either one or both of the following characteristics: (A) the **respiratory** chain pathway of **high energy** efficiency is enhanced, (B) the **respiratory** chain pathway of **low energy** efficiency is deficient.
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 13:53:57 ON 09 JAN 2006)

FILE 'MEDLINE, CAPLUS, SCISEARCH' ENTERED AT 13:54:11 ON 09 JAN 2006
L1 290681 S NAKAI?/AU OR NAKANSIHI?/AU OR KAWAHARA?/AU OR ITO?/AU OR KURA
L2 721 S L1 AND RESPIRATION
L3 1861 S L1 AND RESPIRATORY
L4 2311 S L2 OR L3
L5 21 S L4 AND (HIGH-ENERGY OR LOW-ENERGY)

L6 11 DUP REM L5 (10 DUPLICATES REMOVED)

=> s soxm
L7 43 SOXM

=> s sox (a) m
L8 7 SOX (A) M

=> s l7 orl8
MISSING OPERATOR L7 ORL8
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> s l7 or l8
L9 50 L7 OR L8

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10 22 DUP REM L9 (28 DUPLICATES REMOVED)

=> s l10 and oxiase
L11 0 L10 AND OXIASE

=> s l10 and oxidase
L12 17 L10 AND OXIDASE

=> d ti 1-17

L12 ANSWER 1 OF 17 MEDLINE on STN
TI Respiratory gene clusters of Metallosphaera sedula - differential expression and transcriptional organization.

L12 ANSWER 2 OF 17 MEDLINE on STN
TI Regulation of the aerobic respiratory chain in the facultatively aerobic and hyperthermophilic archaeon Pyrobaculum oguniense.

L12 ANSWER 3 OF 17 MEDLINE on STN
TI The archaeal respiratory supercomplex **SoxM** from S. acidocaldarius combines features of quinole and cytochrome c **oxidases**.

L12 ANSWER 4 OF 17 MEDLINE on STN
TI Aeropyrum pernix K1, a strictly aerobic and hyperthermophilic archaeon, has two terminal **oxidases**, cytochrome ba3 and cytochrome aa3.

L12 ANSWER 5 OF 17 MEDLINE on STN
TI The structure of the soluble domain of an archaeal Rieske iron-sulfur protein at 1.1 A resolution.

L12 ANSWER 6 OF 17 MEDLINE on STN
TI First expression and characterization of a recombinant CuA-containing subunit II from an archaeal terminal **oxidase** complex.

L12 ANSWER 7 OF 17 MEDLINE on STN
TI Cytochrome c **oxidase** contains an extra charged amino acid cluster in a new type of respiratory chain in the amino-acid-producing Gram-positive bacterium Corynebacterium glutamicum.

L12 ANSWER 8 OF 17 MEDLINE on STN
TI Active site structure of SoxB-type cytochrome bo3 **oxidase** from thermophilic Bacillus.

L12 ANSWER 9 OF 17 MEDLINE on STN

TI Sulfocyanin and subunit II, two copper proteins with novel features, provide new insight into the archaeal **SoxM oxidase** supercomplex.

L12 ANSWER 10 OF 17 MEDLINE on STN
TI Energy-yielding properties of SoxB-type cytochrome bo(3) terminal **oxidase**: analyses involving Bacillus stearothermophilus K1041 and its mutant strains.

L12 ANSWER 11 OF 17 MEDLINE on STN
TI Over-expression of cbaAB genes of Bacillus stearothermophilus produces a two-subunit SoxB-type cytochrome c **oxidase** with proton pumping activity.

L12 ANSWER 12 OF 17 MEDLINE on STN
TI New archaebacterial genes coding for redox proteins: implications for the evolution of aerobic metabolism.

L12 ANSWER 13 OF 17 MEDLINE on STN
TI A second terminal **oxidase** in Sulfolobus acidocaldarius.

L12 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Cytochrome aa3 in facultatively aerobic and hyperthermophilic archaeon Pyrobaculum oguniense

L12 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Biochemical and molecular features of terminal **oxidases**

L12 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Genetic sequences associated with mouse neural cell proliferation and disease

L12 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
TI Terminal **oxidases** of Sulfolobus: Genes and proteins

```
=> s nuo or ndh or cytochrome (a) (
UNMATCHED LEFT PARENTHESIS 'A) ('
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s nuo or ndh or cytochrome (a) (bo or bd)
L13        2266 NUO OR NDH OR CYTOCHROME (A) (BO OR BD)

=> s nuo or ndh or cytochrome (a) (bo or bd) or nadh (a) dehyrdogenase
L14        2267 NUO OR NDH OR CYTOCHROME (A) (BO OR BD) OR NADH (A) DEHYRDOGENAS
                E

=> s l14 and (mutant or mutation or recombination or delete)
L15         751 L14 AND (MUTANT OR MUTATION OR RECOMBINATION OR DELETE)

=> dup rem l15
PROCESSING COMPLETED FOR L15
L16         362 DUP REM L15 (389 DUPLICATES REMOVED)

=> s l16 and amino (a) acid
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